

Fig. 3A

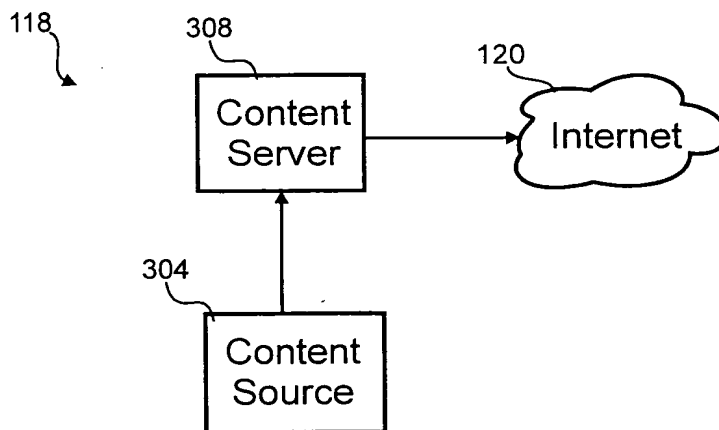


Fig. 3B

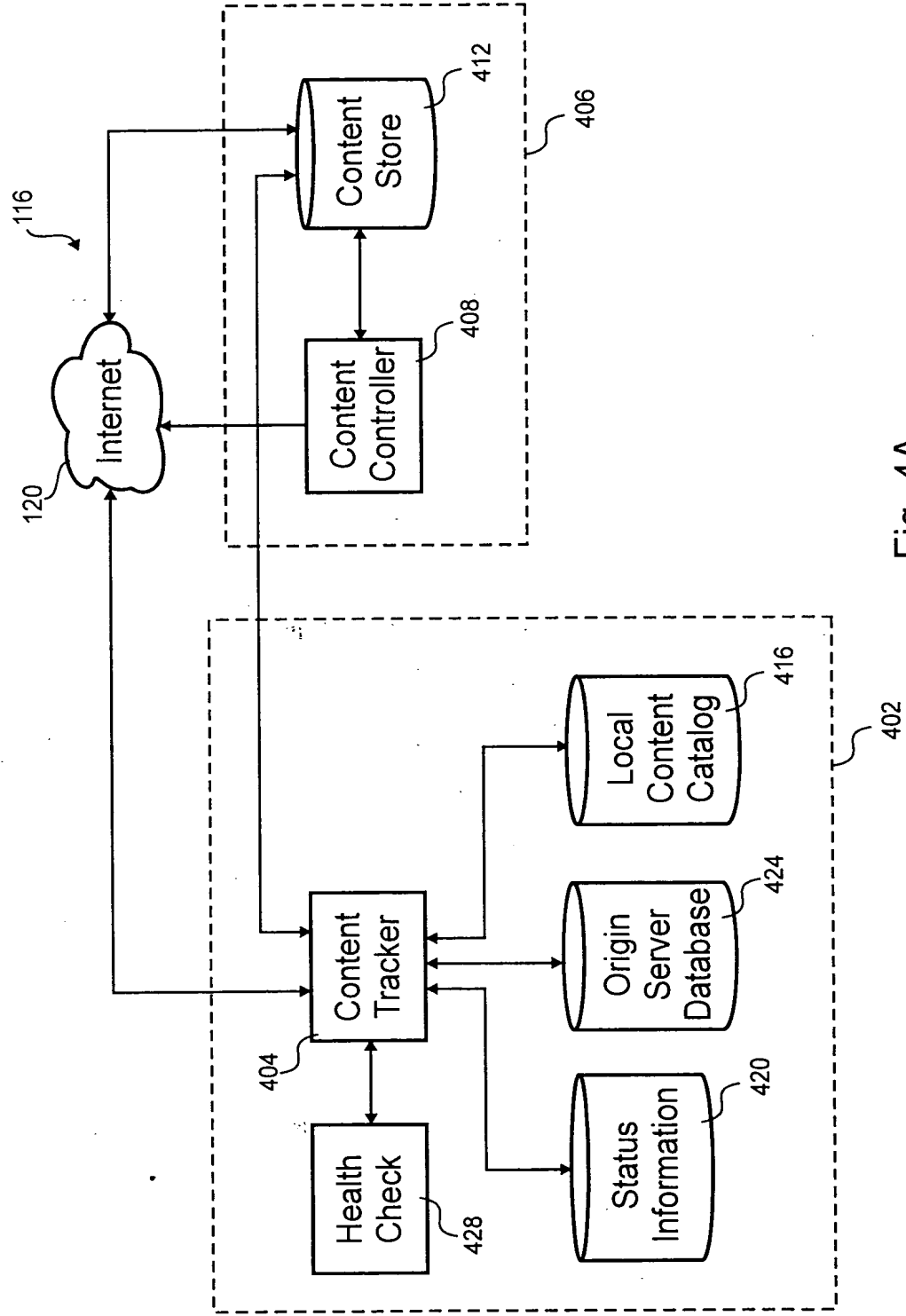


Fig. 4A

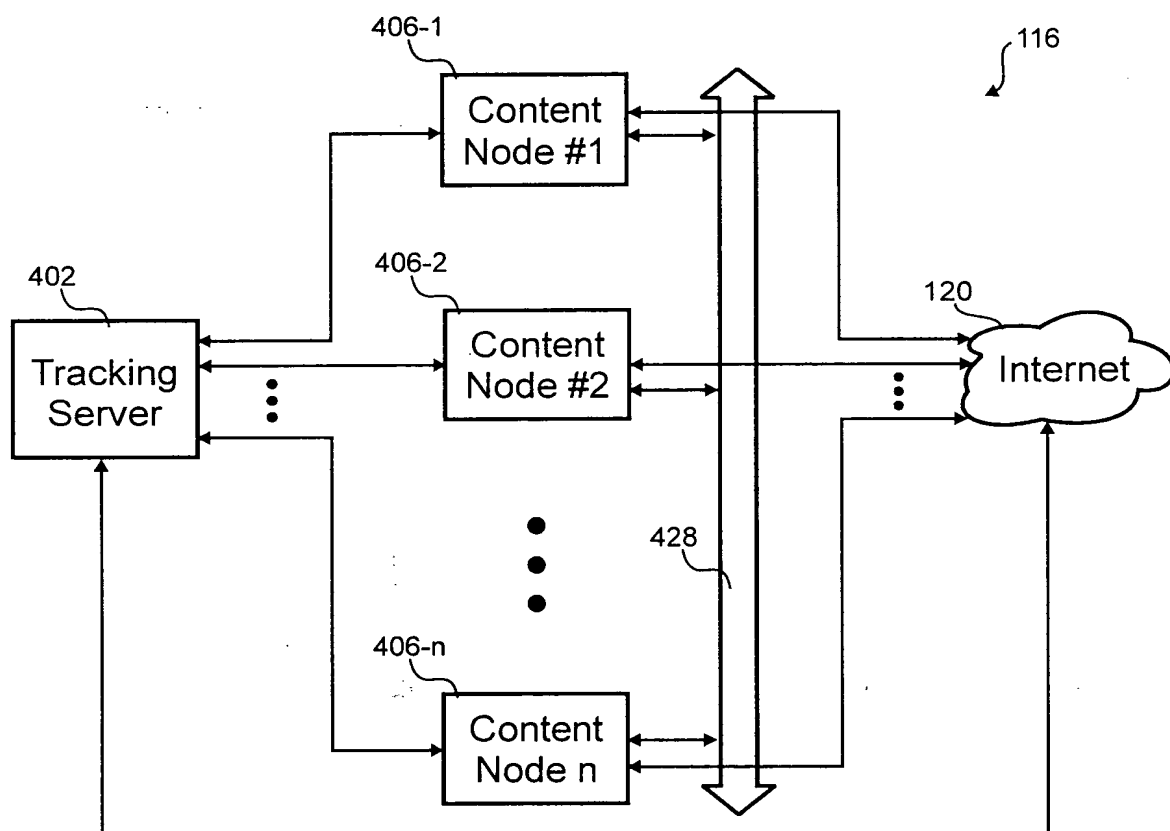


Fig. 4B

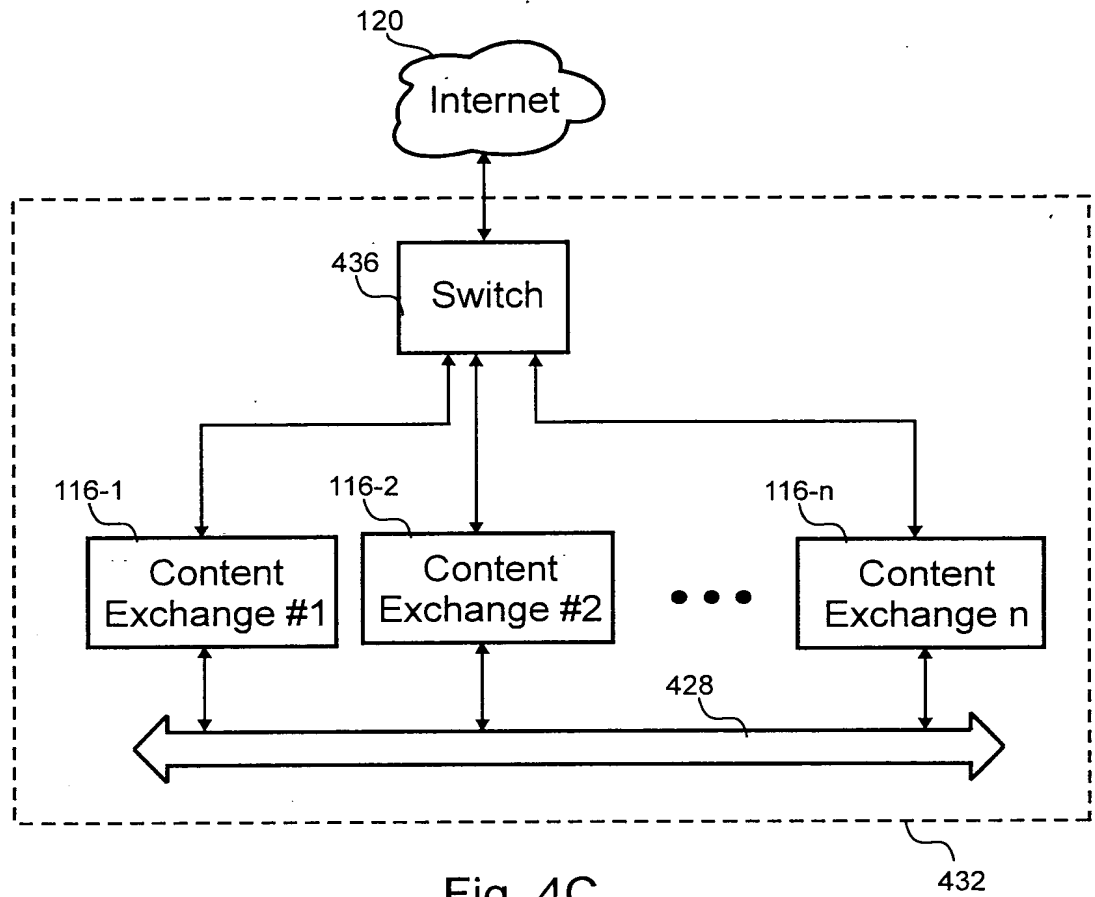


Fig. 4C

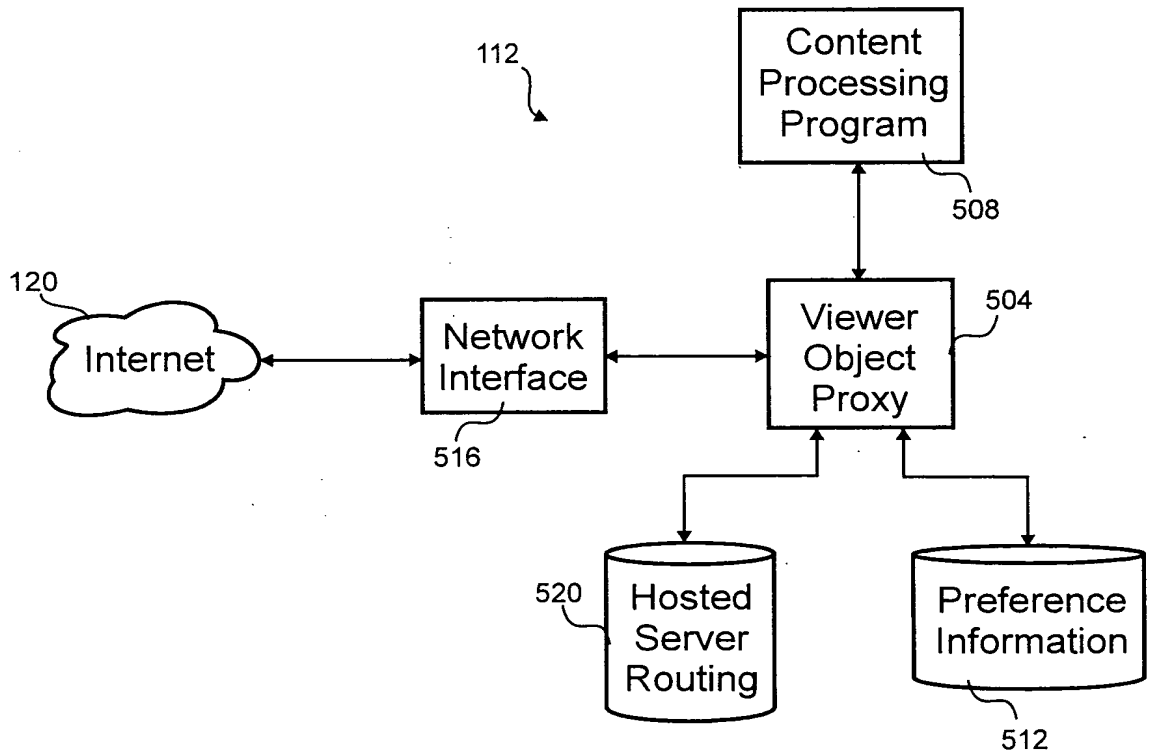


Fig. 5

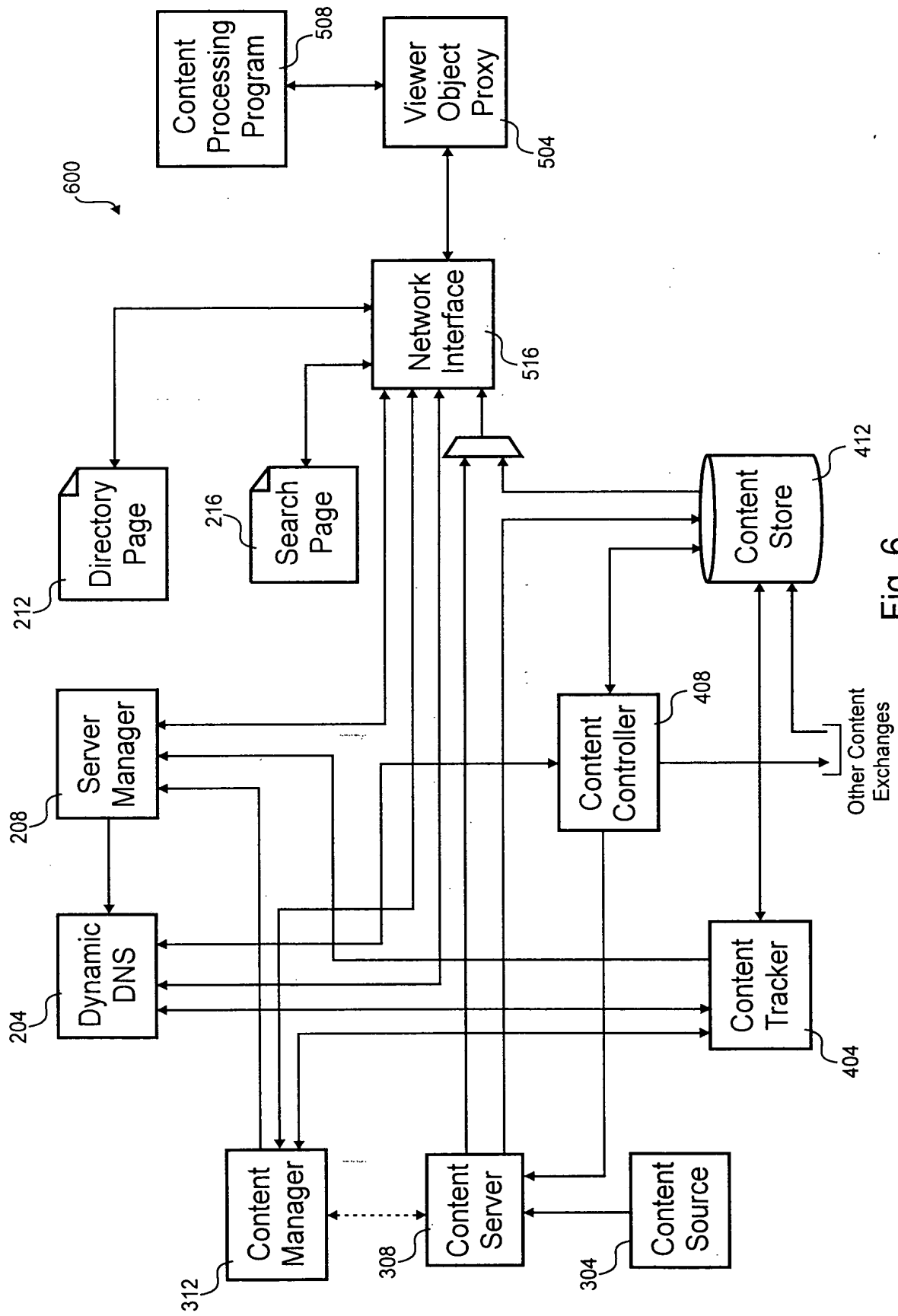


Fig. 6

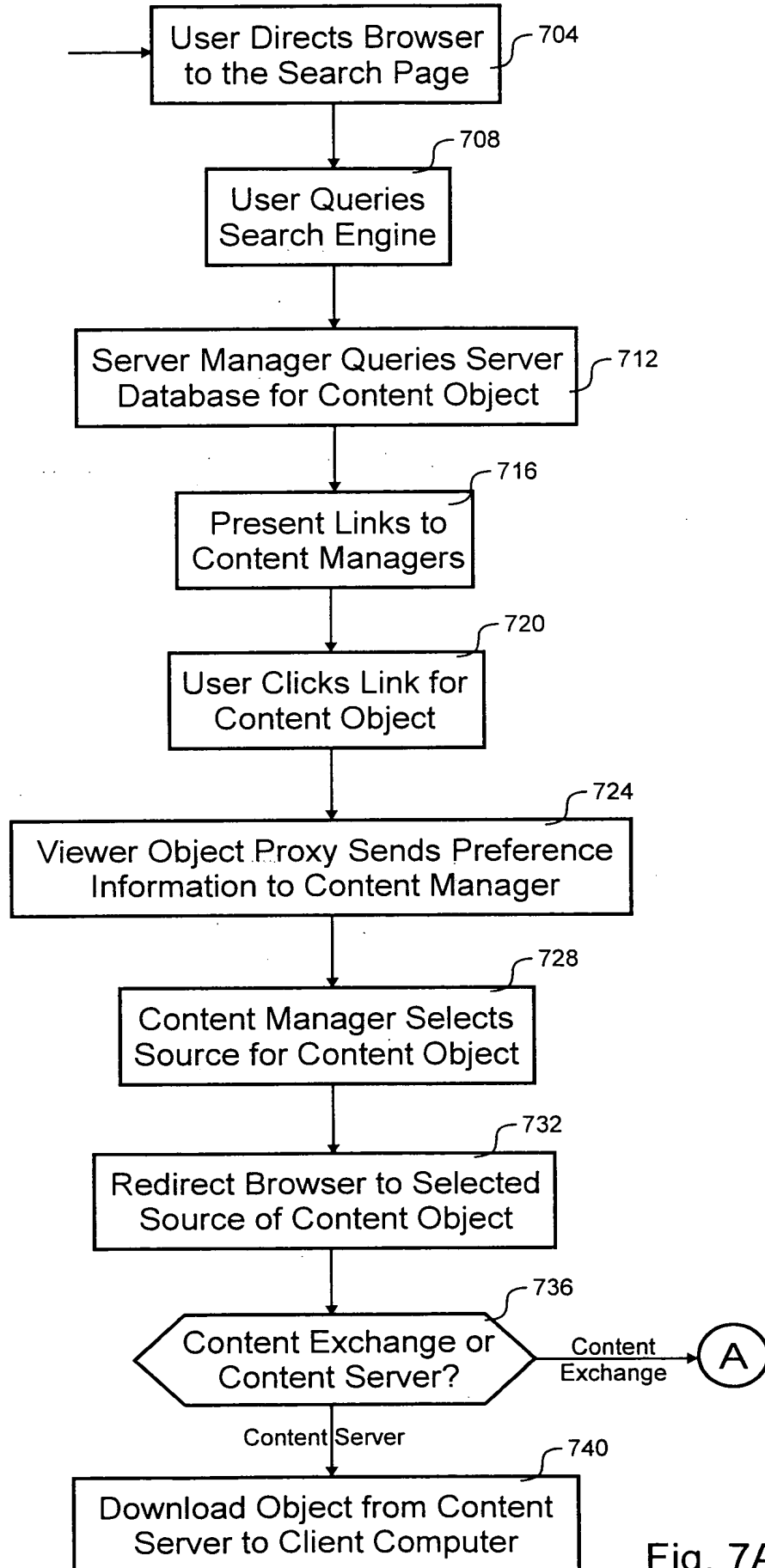


Fig. 7A


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graph TD
    A((A)) --> 744[Content Processing Program Requests Object From Content Store]
    744 --> 748{Is Whole Object in Store?}
    748 -- Yes --> 752[Download Object from Content Store to Client Computer]
    748 -- No --> 756[Content Controller Queries Other Content Exchanges for Object]
    756 --> 760{Missing Portion Found?}
    760 -- Yes --> 764[Download Portion From Other Content Exchange]
    764 --> 748
    760 -- No --> 768[Query Dynamic DNS for Content Server IP Address]
    768 --> 772[Content Controller Is Redirected to Content Server With the Portion]
    772 --> 776[Download Object Portion to Content Store from Content Server]
    776 --> 748

```

Fig. 7B

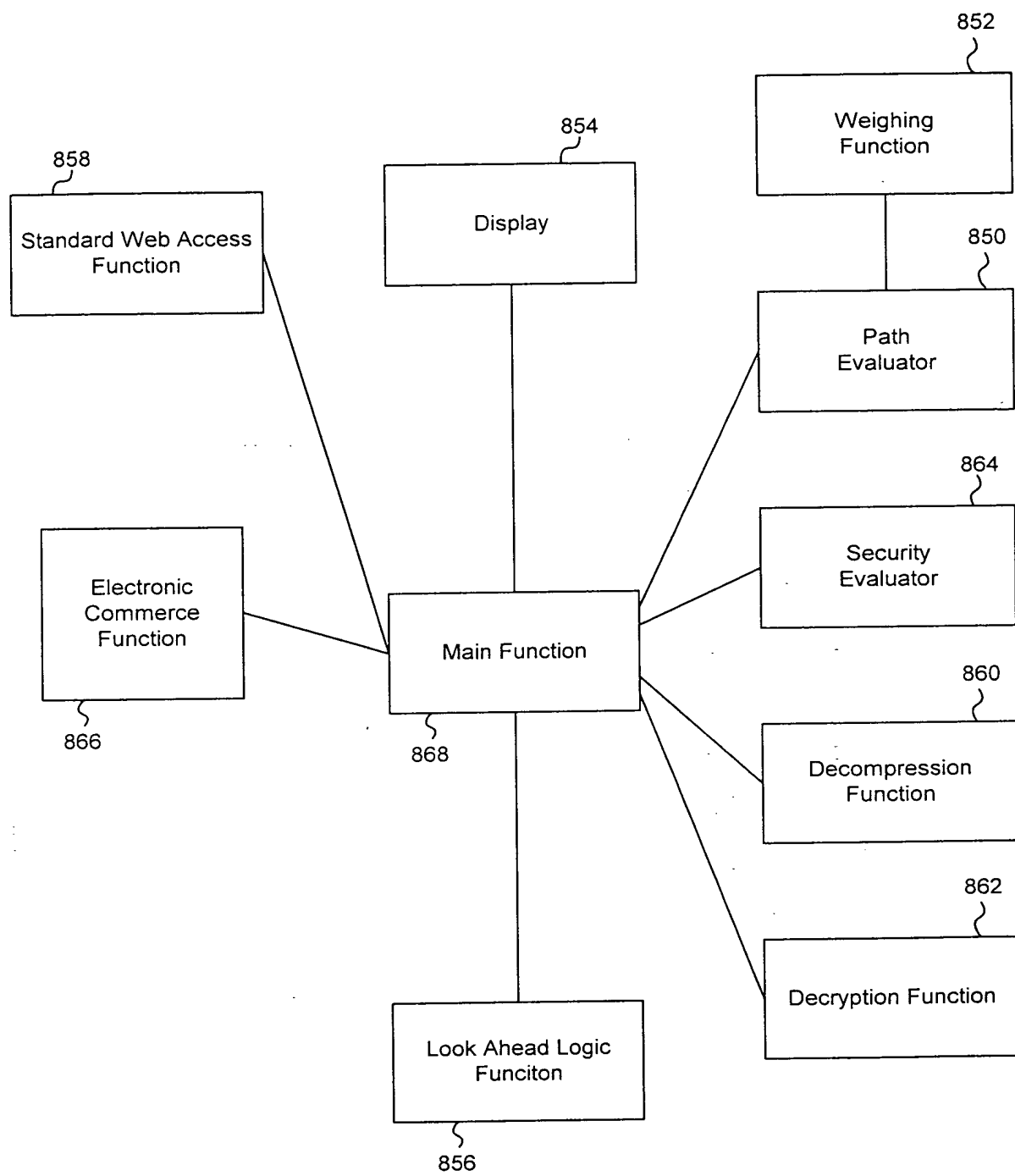


FIG. 8

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graph TD; 980[STARTUP] --> 982[SETUP]; 982 --> 984[Information Request and Receive]; 994[User Request] --> 984; 996[Time Interval] --> 984; 984 --> 986[Path QOS Evaluation]; 986 --> 988[Another Path]; 988 --> 990[Prioritize]; 990 --> 992[Display Results]; 900((900)) -.-> 984;
```

FIG. 9

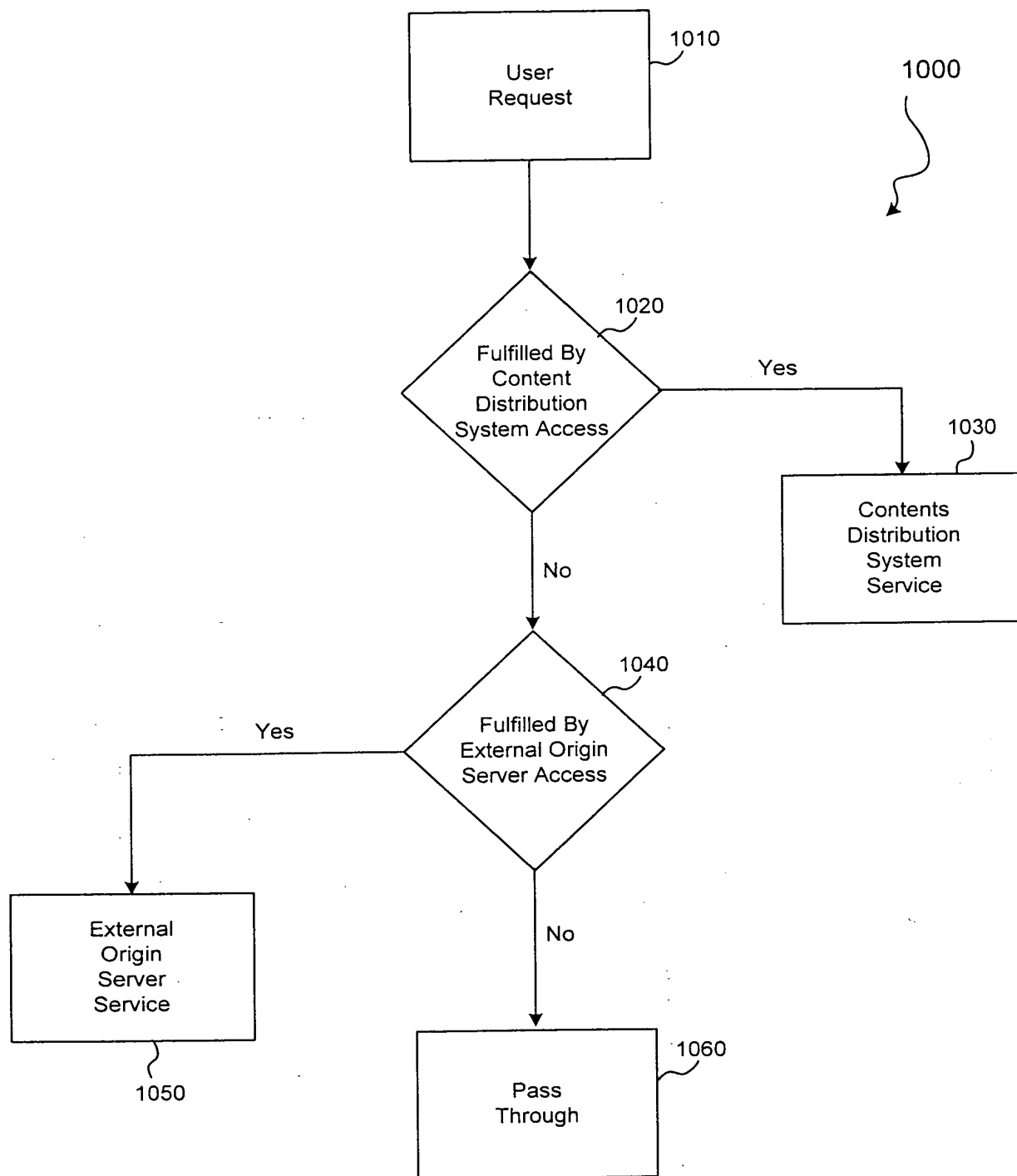


FIG. 10

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graph TD
    1104[Content Exchange Begins Operation  
in Empty State Waiting for Contact] --> 1108[Content Manager Begins Operation  
and Identifies Itself to Content Tracker]
    1108 --> 1112[Content Tracker Responds to Content  
Manager with Status and Any Content Objects]
    1112 --> 1116[Content Manager Sends Client Computer  
to Content Exchange for Fulfillment]
    1116 --> 1120[Content Controller Populates Content  
Store with Requested Content Object]
    1120 --> 1124[Content Tracker Reports to Content Manager on the  
Catalog Portions Relating to That Content Manager]
    1124 --> 1128[Content Tracker Detects Catalog  
Change(s) Related to Content Manager]
    1128 --> 1132[Report Changes in Related Portion  
of Catalog to Content Manager]
    1132 --> 1136{Did Content  
Manager  
Respond?}
    1136 -- Yes --> 1116
    1136 -- No --> 1140[Tag Objects Associated  
with Content Manager]
    1140 --> 1108

```

Fig. 11

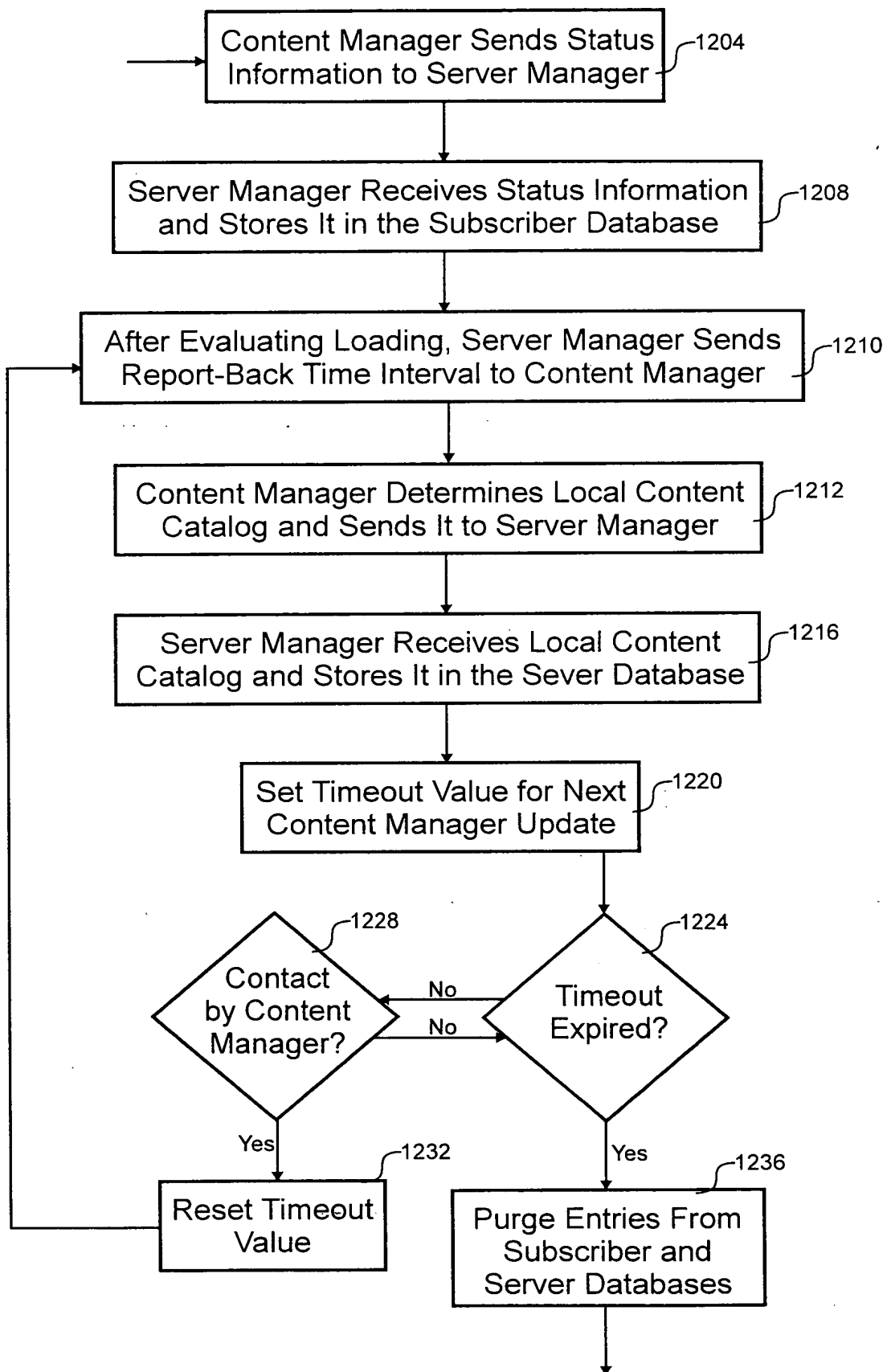


Fig. 12

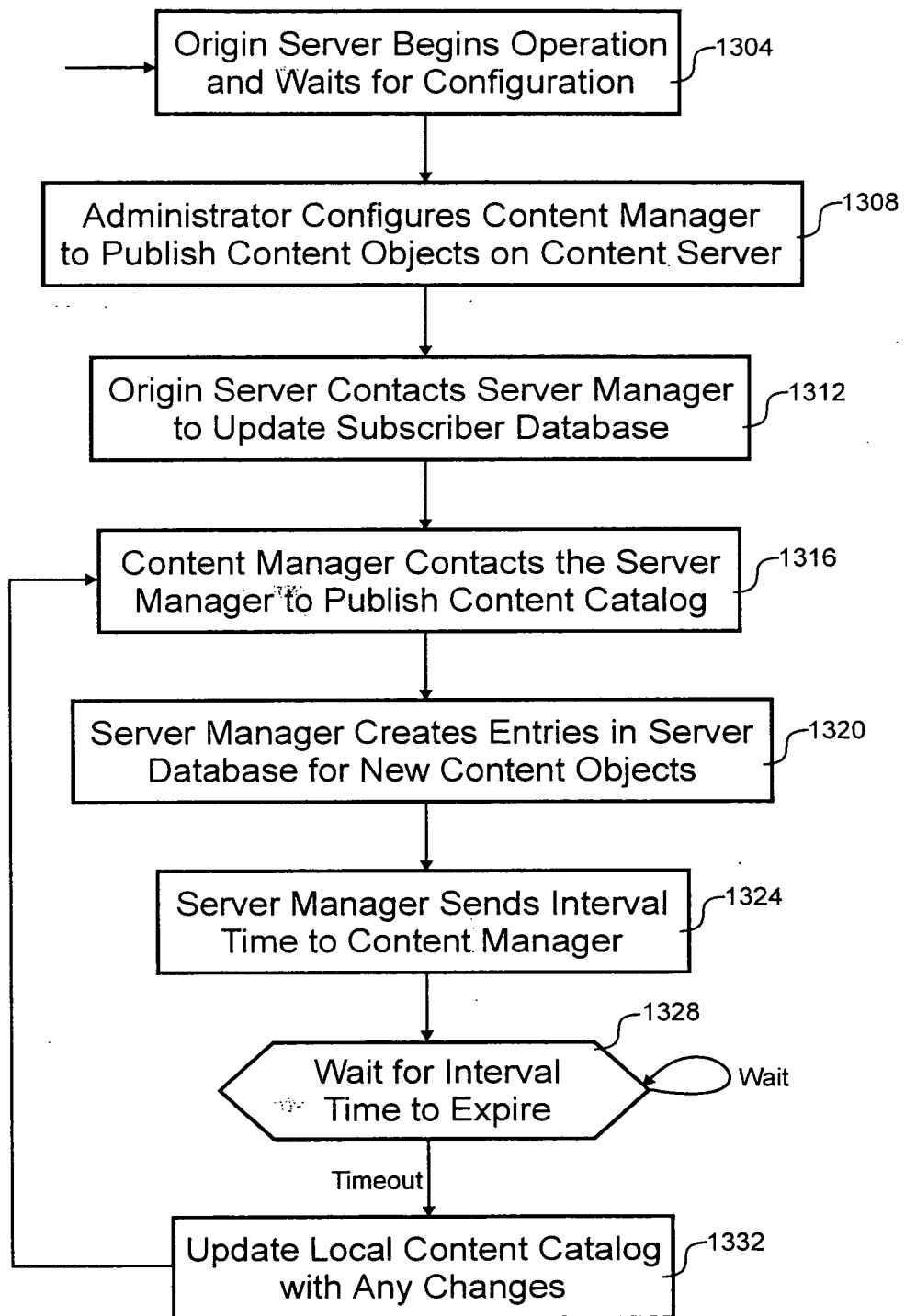


Fig. 13

000750" 4524950

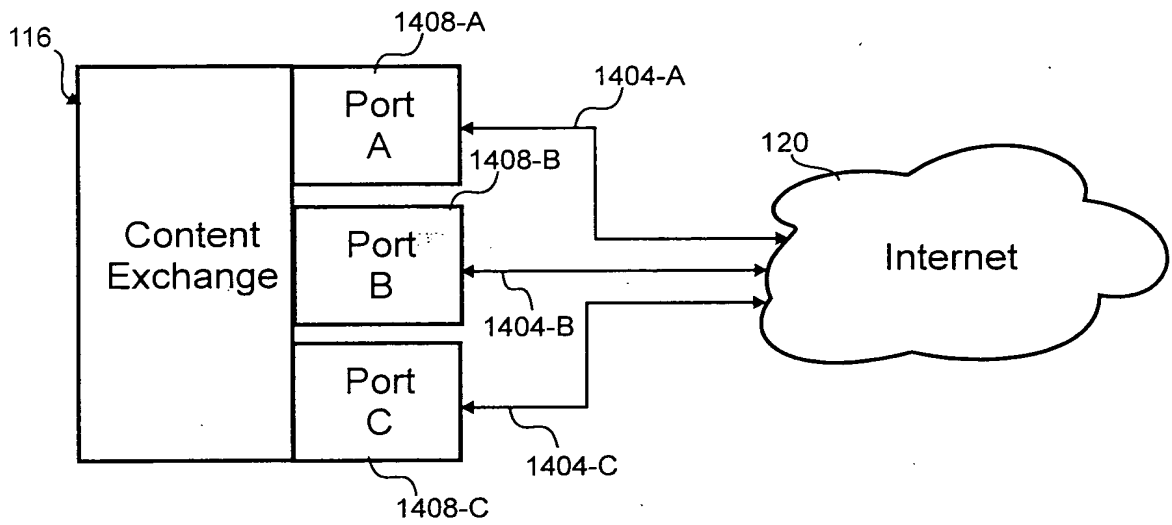


Fig. 14

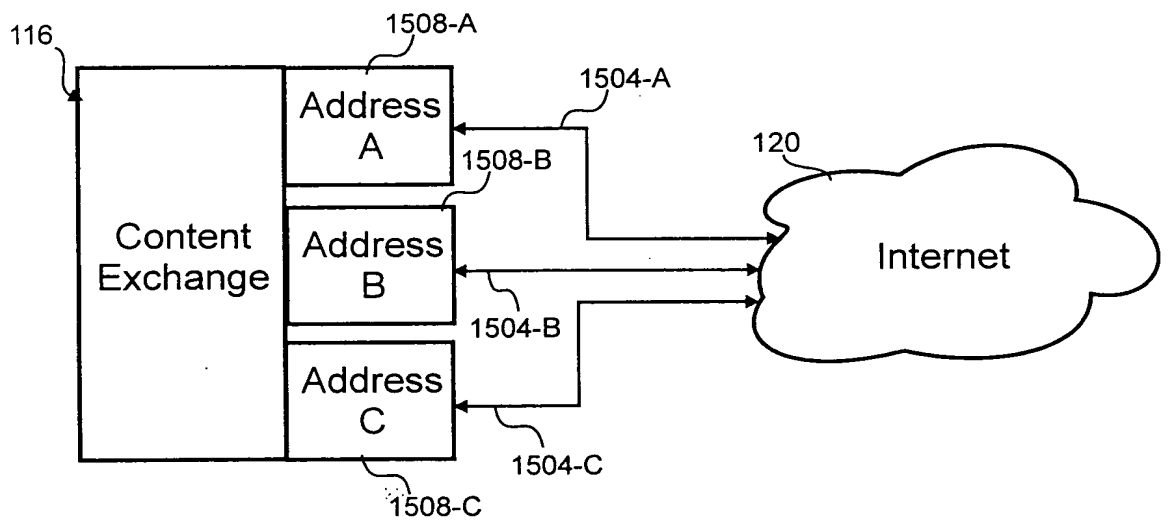


Fig. 15

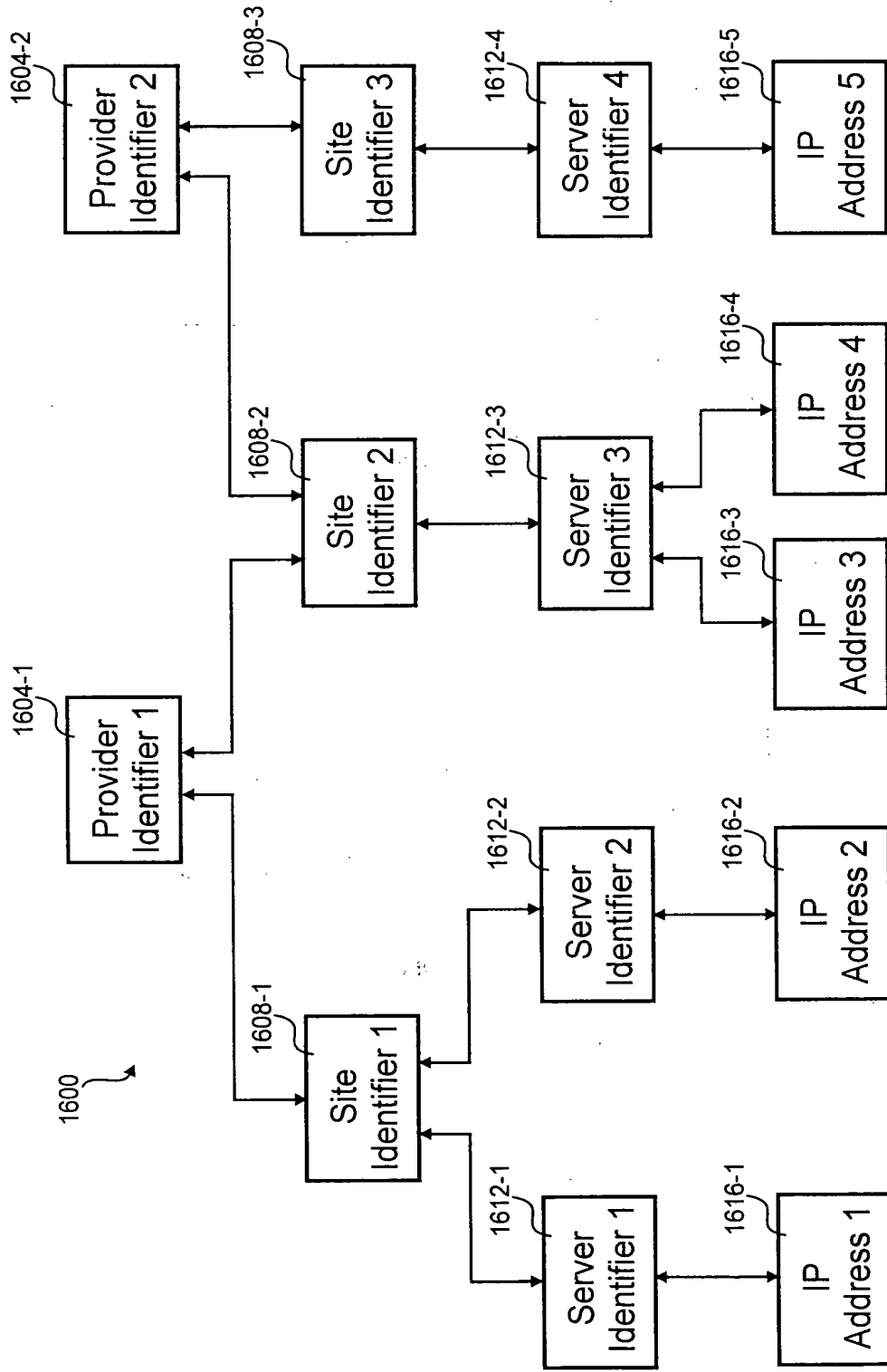


Fig. 16

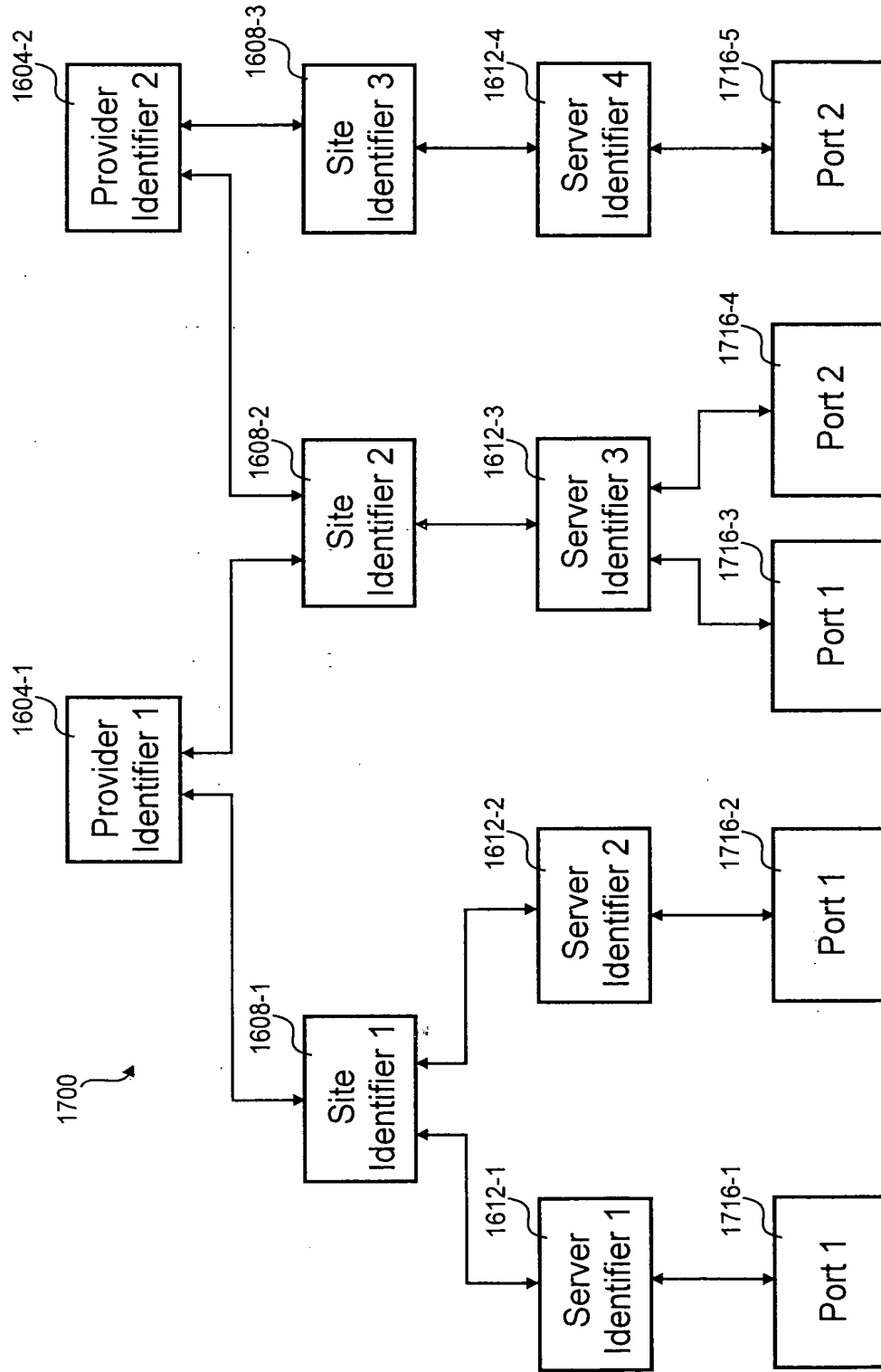


Fig. 17